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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/997,937	12/03/2001	David Lee	821001	5738

7590 04/01/2003

MOSER PATTERSON & SHERIDAN
350 CAMBRIDGE AVENUE
SUITE 250
PALO ALTO, CA 94306

EXAMINER

ROMAN, ANGEL

ART UNIT	PAPER NUMBER
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2812

DATE MAILED: 04/01/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/997,937

Applicant(s)

LEE, DAVID

Examiner

Angel Roman

Art Unit

2812

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 29 January 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) 19 and 20 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-18 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 03 December 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) <u>2</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Election/Restrictions

1. Applicant's election of Group I (claims 1-18) in Paper No. 6 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

Specification

2. The disclosure is objected to because of the following informalities: In page 2, paragraph 1, the serial number and filing date of the related Patent application are missing.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1-18 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Ohara et al. U.S. Patent 5,668,033A.

Ohara et al. discloses a method of packaging components comprising components dies (15, 6, 19) by; bonding a carrier 32 to an enclosure 33 including a plurality of covers having an air cavity to receive at least one of the components therein (see figure 11); and forming a component package assembly (see figure 19). The enclosure is formed of materials comprising polymers, ceramic, glass, and combinations thereof (see column 13, lines 15-16). Bonding the carrier to the enclosure comprises providing an adhesive layer 24 between the enclosure 33 and the carrier 32 by applying the adhesive layer 24 to the enclosure 33 (cover surface disposed adjacent the carrier) and adhesive layer 21 to the carrier 32. The component package assembly is separated into a plurality of individual component by cutting between each of the pluralities of component through a plurality of sidewalls packages using a sawing process (see figure 18). Ohara et al. also discloses a method of packaging components, comprising; bonding a body 33 including a plurality of component covers to a carrier 32 comprising a plurality of the components thereon wherein at least one of the components is positioned proximate one of the component covers (see figure 19); and providing an air-cavity between the components and a respective component covers wherein providing the air-cavity between each of the components and their respective component covers comprises forming the sidewalls with a top portion that exceeds the height of the components and wherein the sidewalls and the top portion define an enclosure (see figure 22).

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Hyoudo et al., Gooch et al., Yoshihara et al., Glenn, Mizuno et al. and Kabori et al. disclose methods of packaging components dies, comprising; bonding a body including a plurality of component covers of materials comprising polymers, ceramic, glass, and combinations thereof comprising sidewalls defining the component covers, to a carrier comprising a plurality of the components thereon wherein at least one of the components is positioned proximate one of the component covers; providing an air-cavity between the components and a respective component covers; wherein bonding the body to the carrier comprises providing an adhesive between the sidewalls and the carrier; further comprising separating the sidewalls and carrier to form individual components having at least one of the plurality of covers thereon by using sawing processes.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Angel Roman whose telephone number is (703) 306-0207. The examiner can normally be reached on Monday-Friday 8:30am-6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Niebling can be reached on (703) 308-3325. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7724 for regular communications and (703) 308-7724 for After Final communications.


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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1782.

AR
March 25, 2003



John F. Niebling
Supervisory Patent Examiner
Technology Center 2800